

Q 1

Humans estimated haploid protein coding genes are in range?

A

30,000-40,000

B

40,000-50,000

C

10,000-15,000

D

20,000-25,000

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Q 2

Competitive inhibition can be overcome by using

A

low concentration of substrate

B

high concentration of inhibitor

C

moderate concentration of inhibitor

D

high concentration of substrate

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Q 3

All of the following are coelomates except which?

A

Deuterostomes

B

Hemichordates

C

Proterosomes

D

Aschelminthes

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Q 4

The image represent by compound microscope is

A

real

B

virtual

C

real inverted

D

virtual inverted

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Q 5

Quantitative study of energy relationships in biological systems obeys?

A

Bioenergetics

B

Laws of thermodynamics

C

Laws of thermochemistry

D

Laws of chemical energetic

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Q 6

Among the followings which is the most longest supportive cell?

A

Trachea

B

Collenchyma cells

C

Sclereids

D

Tracheids

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Q 7

The best function of coelom is described as

A

To increase the size of the animals

B

To help in the functioning of reproductive system

C

To provide space for the development of organs and systems

D

all of these

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Q 8

A bacterium with tuft of flagella at both poles is called?

A

Lophotrichous

B

Peritrichous

C

Monotrichous

D

Amphitrichous

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Q 9

At which times there is no net gaseous exchange between leaves and the atmosphere?

A

Day

B

Night

C

Dawn and Dusk

D

Midnight

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Q 10

The genetic change in a population caused by natural selection is called?

A

polymorphism

B

specialization

C

gene linkage

D

adaptation

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Q 11

Gametes in animals are produced by which of the following?

A

mitosis

B

meiosis

C

fission

D

all of these

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Q 12 Which one is not a day neutral plant?

A cotton

B maize

C cucumber

D tobacco

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Q 13

Cellular organelles that interact with hydrogen peroxide are called?

A

Glyoxysomes

B

Lysosomes

C

Ribosomes

D

Peroxisomes

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Q 14

Two species can avoid competition, and better use the environment's resources by occupying different?

A

adaptations

B

polymorphism

C

niches

D

specialization

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Q 15

The main target in the prevention of lung cancer is eliminating the

A

Tobacco smoking

B

chemicals

C

Pollutants

D

Mutagens

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Q 16

Which of the following statements are true about the capsomeres?

A

It is an individual unit of the capsid

B

It is a viral protein for replication

C

a. It is a unit of nucleic acid in viruses

D

All of the above

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Q 17

Which of the following are important points of Lamarck's theory?

A

Use and disuse of organs

B

Inheritance of acquired characters

C

Natural selection

D

both a and b

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Q 18

Which of the following does not show quaternary structure?

A

hemoglobin

B

Pepsin

C

fibrin

D

globulin

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Q 19

What type of plant cells carry out photosynthesis?

A

Sclerenchymatous cells

B

Parenchymatous cells

C

Chlorenchymatous cells

D

Both B and C

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Q 20 AIDs was firstly reported in which types of individuals?

A heterosexuals

B homosexuals

C both

D none

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Q 21 The patellar reflex and the Achilles reflex are examples of:

A Monosynaptic reflex

B Polysynaptic reflex

C Hemi Synaptic reflex

D Both A and B

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Q 22

Find out the correct sequence for movement of electrons during the light-dependent reaction

A

p68 , p7 , water, NADP

B

water, p7 , NADP, p68

C

p7 , p68 , NADP, water

D

water, p68 , p7 , NADP

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Q 23

Which one of these occur in dark reactions of photosynthesis

A

formation of ATP

B

release of oxygen

C

release of hydrogen

D

synthesis of PGAL

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Q 24

From beginning of the 3rd month of pregnancy the human embryo is referred to as the?

A zygote

B foetus

C embryo

D all of these

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Q 25

An individual with a heterozygous genotype is a:

A

Heterozygote

B

Both a & b

C

Homozygote

D

None of the above

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Q 26

Where is the main blood vessel of arthropods usually found?

A

Lies on ventral side

B

Lies on lateral side

C

Is not present

D

Lies on dorsal side

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Q 27

What are the concentrations of the cell bodies of the neurons called?

A

axons

B

introns

C

ganglia

D

dendrites

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Q 28

An entire skeletal muscle is surrounded by _____.

A

sarcolemma

B

epimysium

C

Both A and B

D

microtubules

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Q 29

The catalytic activity of an enzyme is restricted to its small protein called?

A

intermediate site

B

active site

C

passive site

D

both a and b

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Q 30

Microfilaments are composed of a protein called?

A

tubulin

B

actin

C

myosin

D

chitin

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Q 31

What is the copper containing protein involved in the ETC in plants?

A

pq

B

pc

C

pt

D

po

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Q 32

The controlling function of hypothalamus is:

A

swallowing

B

vision

C

Memory

D

water balance

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Q 33

Which of the following is required for learning?

A

Medulla

B

Thalamus

C

hypothalamus

D

Hippocampus

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Q 34

The Herpes virus is responsible for which of the following types of Herpes?

A

simplex

B

duplex

C

triplex

D

quadruplex

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Q 35

Inbreeding reduces the fitness of a population. This is the result of which increased genetic affect of inbreeding?

A

Rate of spontaneous mutation

B

Levels of aggression

C

Genetic diversity

D

Expression of deleterious recessive traits

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Q 36

If we consider Hardy-Weinberg law, then following is incorrect in its sense?

A

Mutations cause changes in genetic frequency

B

Migration changes allele frequency

C

There should not be selection

D

Non-random mating will reduce chances of evolution

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Q 37 sperms are nourished and activated through?

A vas deferens

B prostate gland

C semen

D all of these

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Q 38

Which system is present in nematodes?

A

Sac - like digestive system

B

Circulatory system

C

Respiratory system

D

Tube - like digestive system

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Q 39

Which of the following are modern-day descends of theropod dinosaurs?

A

birds

B

lions

C

panther

D

bears

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Q 40

The cementing material between adjacent plant cells.

A

Cellulose

B

Hemicellulose

C

Middle lamella

D

All of the above

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Q 41

The actual remains or traces of organisms that lived in ancient geological times are known as?

A

Vestigial organs

B

fuel

C

fossils

D

all of these

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Q 42

The most abundant intracellular free nucleotide is

A

UTP

B

FAD

C

NAD

D

ATP

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Q 43

Chemical substances used on living tissues that inhibit the growth of micro organism are called?

A

disinfectant

B

sanitizer

C

antibiotic

D

antiseptics

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Q 44

In fruit flies, white eyes are produced by a dominant X-linked mutation, with the wild-type being red-eyed. If a white-eyed male is mated with a red-eyed female, what will be the phenotype of the resulting offspring?

A Half the females will have white eyes

B All the males will have white eyes

C Half the males will have white eyes

D All the females will have white eyes

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Q 45

For respiratory metabolism, bacterial cell membrane contains

A

proteins

B

lipids

C

enzymes

D

chemicals

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Q 46

A much smaller and ancient bacteria are present in group

A

Archaeo bacteria

B

Lactobacteria

C

Eubacteria

D

Anaerobic bacteria

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Q 47

The joint that allows the movements in two directions is called:

A

Fibrous joints

B

Cartilaginous Joints

C

Hinge joint

D

Ball and socket joint

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Q 48

The gene which controls ABO group has how many alleles in an individual?

A

1

B

2

C

3

D

4

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Q 49

Glottis is lined with:

A

plasma membrane

B

Mucous membrane

C

meninges

D

epithelial membrane

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Q 50

If the non-protein part is loosely attached to the protein part in the enzyme, it is known as?

A

coenzyme

B

prosthetic group

C

cofactor

D

apoenzyme

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Q 51 Which of the statement is not true for compounds like glycoprotein and glycolipids?

- A They are conjugated molecules of carbohydrates
- B Both have role in the extracellular matrix of animals and bacterial cell wall
- C They are components of biological membranes.
- D Both are produced and secreted by endoplasmic reticulum

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Q 52 Which of the following animals is NOT a protostome?

A Earthworm

B Cockroach

C Butterfly

D Sting ray

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Q 53

Net yield of H_2O in Photosynthesis is?

A

1

B

6

C

3

D

0

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Q 54

Characteristics feature of male drosophila is:

A

Sex combs on back legs

B

Sex combs on front legs

C

Sex combs on middle legs

D

None of them

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Q 55

The soluble sap of the nucleus in a plant cell is called?

A

cytoplasm

B

nucleoplasm

C

protoplasm

D

protoplast

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Q 56

An example of convergent evolution is best represented by which of the following?

A

Teeth of domestic dog, teeth of a wolf

B

Wings of *Geospiza magnirostris*, wings of *Geospiza fortis*

C

Wing of Hawkmoths, the wing of hawks

D

all of these

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Q 57

Which of these functions will be affected if the medulla oblongata is damaged?

A

Thermoregulation

B

Vision

C

Memory

D

Tactile sensation-response when pricked with a needle

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Q 58

Which hormone is involved in opening and closing of stomata?

A

citric acid

B

Oxaloacetic acid

C

abscisic acid

D

None of these

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Q 59

Which of the following statements about the systemic affect of bacterial cells are true?

A

Gram-negative bacteria are more likely to cause systemic effects because their lack of an outer membrane means they can more quickly infect host cells.

B

Gram-negative bacteria are more likely to cause systemic effects because their outer membrane protects them from antibiotics

C

both a and b

D

none of these

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Q 60

Which joints are held together by short collagen fibers embedded in connective tissue?

A

Fibrous joints

B

Cartilaginous Joints

C

Synovial Joints

D

None of these

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Q 61

What's the difference between homologous and analogous structures?

A

Homologous structures result from a common ancestor; analogous structures result from repetitive usage by the individual

B

Homologous structures result from convergent evolution; analogous structures result from a common ancestor

C

There is no difference between homologous and analogous structures

D

Homologous structures result from a common ancestor; analogous structures result from convergent evolution

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Q 62

How do competitive inhibitors affect enzyme efficiency?

A

Raise the maximum rate of the enzymatic reaction

B

Lower the maximum rate of the enzymatic reaction

C

Lower the Michaelis constant

D

Raise the Michaelis constant

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Q 63

Lymph vessels transfer the lymph into blood through:

A

subclavian artery

B

subclavian vein

C

Iliac artery

D

Iliac vein

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Q 64

The end product of an enzymatic reaction inhibits formation of product in an earlier step. This type of enzymatic regulation is known as ?

A

allosteric regulation

B

negative regulation

C

metabolic pathway loop

D

feedback inhibition

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Q 65

Breathing and heart rate is controlled by which of these?

A

Corpus callosum

B

Hippocampus

C

Medulla

D

Thalamus

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Q 66

Phosphofructokinases enzyme converts fructose-6-phosphate into ____

A

fructose-1,4-phosphate

B

fructose-1,6-bisphosphate

C

bisphosphate

D

fructose

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Q 67

Secondary oocyte is ovulated from:

A

corpus luteum

B

Graafian follicle

C

primary follicle

D

germinal epithelium

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Q 68

Viruses can bud from

A

Rough endoplasmic reticulum

B

golgi complex

C

nuclear envelop

D

all of these

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Q 69

Identify the de Broglie expression from the following.

A

$$\lambda = h \times p$$

B

$$\lambda = h/p$$

C

$$\lambda = h + p$$

D

$$\lambda = h - p$$

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Q 70

Object A has a charge of 15 mC, and object B has a charge of 10 mC. Which statement is true about the electric forces on the objects?

A $F_{AB} = -3 F_{BA}$

B $F_{AB} = - F_{BA}$

C $3 F_{AB} = - F_{BA}$

D $-3 F_{AB} = 2 F_{BA}$

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Q 71

The distance between two consecutive crests of a travelling wave is 10 cm. If the speed of the wave 50 cm/s, then its frequency would be:....

A

40 Hz

B

 $1/5$ Hz

C

5 Hz

D

500 Hz

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Q 72

Acceleration of object which starts rest to reach 20 m/s in 10 sec is

A

 2m/s^2

B

 10m/s^2

C

 1 m/s^2

D

 2m.s^2

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Q 73

Under which conditions, a real gas approximate to an ideal gas?

A

pressure = high density = high

B

pressure = low density = high

C

pressure = high density = low

D

pressure = low density = low

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Q 74

SI unit of inductance is

A

Henry

B

Farad

C

Maxwell

D

Weber

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Q 75

Resistivity of a substance is defined as the resistance of a _____ of that substance.

A

meter

B

meter square

C

meter cube

D

centimeter

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Q 76

Work done can be calculated by taking

A

dot product of force and displacement

B

cross product of force and displacement

C

both cross and dot product

D

none of these

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Q 77

A steady current passing through a conductor produces

A

electric field

B

magnetic field

C

both of these

D

none of these

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Q 78

Which of the following is not a type of rectifier?

A

Phase wave rectifier

B

Full wave

C

half wave

D

none of them

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Q 79

Two objects, with different sizes, masses, and temperatures, are placed in thermal contact. In which direction does the energy travel?

A

energy travels from the larger object to the smaller object

B

energy travels from the object with more mass to the one with less mass

C

energy travels from the object at higher temperature to the object at lower temperature

D

energy does not travel

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Q 80

A body performing circular motion with a constant speed has a constant :

A

momentum

B

angular velocity

C

acceleration

D

radius vector

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Q 81

If the nuclear radius of Al-27 is 3.6 fm, the approximate nuclear radius of Cu-64 in fermi is

A

1.2 fm

B

2.4 fm

C

3.6 fm

D

4.8 fm

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Q 82

Harmonics in transformer result in

A

increases core loss

B

Increases I^2R loss

C

Interference with communication circuits

D

All of the above

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Q 83

A 4kg eagle picks up a 75g snake and raises it 2.5 m from the ground to a branch. What is the work done to raise the bird's own centre of mass to the branch? (Assume $g = 10 \text{ m/s}^2$)

A

100 J

B

1.875 J

C

18.75 J

D

187.5 J

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Q 84

A sinusoidal current has rms value of 10A. What is the peak value of current?

A

144.4A

B

1.4A

C

0.1414A

D

14.4A

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Q 85

Excited atoms returns to ground state in _____ time

A

1 ns

B

2ns

C

3ns

D

all of these

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Q 86

x-rays were discovered in

A

nuclear bomb experiment

B

chemical reaction experiment

C

scattering experiment

D

none of these

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Q 87

Ohm's law is not applicable to

A

Semiconductors

B

D.C. circuits

C

Small resistors

D

High currents

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Q 88

A projectile is launched with vertical Kinetic energy K at angle θ then its variation with kinetic energy K_0 is

A

Parabolic

B

periodic

C

hyperbolic trajectory

D

linear

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Q 89

Strength of magnetic field is called

A

strength

B

flux

C

magnetic flux density

D

density

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Q 90

The angular speed of the wheels of a bicycle is 8π radian/sec there period of rotation is :

A

.25 sec

B

.4 sec

C

$\pi/4$ sec

D

4 sec

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Q 91 Centre tap rectifier circuit consists of _____ diode

A 1

B 200%

C 300%

D 400%

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Q 92

A motion with uniform negative acceleration can be represented on displacement-time graph by:...

A

a horizontal line

B

a curve line with decreasing gradient

C

a straight line with constant gradient

D

a curve line with increasing gradient

91

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Q 93

Two tuning forks produces 6 beats per second. Which of the following are possible frequencies of these tuning forks.

A 12 Hz and 24 Hz

B 8 Hz and 14 Hz

C 10 Hz and 20 Hz

D 66 Hz and 11 Hz

92

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Q 94

Find the probability that the nucleus of $^{87}\text{Ra}^{221}$ undergoes decay after three half-lives, if its a radioactive substance which has a half-life of 6 days.

A $1/6$ B $3/2$ C $5/6$ D $1/2$

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Q 95

Beta rays cannot be stopped by

A

paper

B

water

C

air

D

all of these

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Q 96

If one body is at motion then if we try to stop it then it will resist by

A

inertia of motion

B

inertia of rest

C

inertia of turning

D

inertia of acceleration

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Q 97

Which one of them is a type of emission

A

spontaneous

B

stimulated

C

both a) and b)

D

None of these

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Q 98

LED TV produce ____ radiation

A

alpha

B

beta

C

gamma

D

none of these

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Q 99

The frequency of a string on a musical instrument can be changed either by:

A varying the diameter or by changing the length

B varying the tension or by changing the thickness

C varying the tension or by changing the length

D varying the thickness or by changing the length

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Q 100

Einstein was awarded Nobel Prize for his work on

A photoelectric effect

B nuclear fission

C theory of relativity

D all are correct

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Q 101

The basic purpose of filter is to

A

minimize variation in ac signal

B

suppress harmonics in rectified output

C

remove ripples from the rectified output

D

stabilize dc output voltage

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Q 102

The Boltzmann's constant, k_B , is defined as:....

A

$$N_A + R$$

B

$$R \div N_A$$

C

$$N_A \div R$$

D

$$N_A \times R$$

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Q 103

What is 30 degrees in radians?

A

 $\pi/3$

B

 $\pi/6$

C

 $\pi/2$

D

 $\pi/4$

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Q 104

Two forces of $F_1 = 5 \text{ N}$ and $F_2 = 15 \text{ N}$ are working on a body in opposite direction. If body displaced by 5 m in direction of net force ,what will be the work done by F_2

A 25 J

B -75 J

C 75 J

D 50 J

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Q 105

A square coil of side length 2 mm is placed in the x-y plane and in uniform magnetic field 0.1 T. Find total flux through the coil

A 1.6 Wb

B 0.16 Wb

C 16 Wb

D 0 Wb

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Q 106

When work done by force of gravity is negative (only gravity is acting)

A KE decreases

B PE increases

C both (A) and (B)

D none of these

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Q 107

If a current wire of 2 A and length 5m enters perpendicular to magnetic field of 10T. calculate the force experienced by it

A

50N

B

100N

C

200N

D

25N

106

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Q 108

When we heat a substance, energy associated with its atoms or molecules is increased. It means...

A

heat is converted to internal energy

B

heat is converted to only potential energy of the particles

C

heat is converted to only kinetic energy of the particles

D

heat is converted to temperature of gas

107

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Q 109

One kcal =

A

4.18 J

B

4180 J

C

2.09 J

D

2090 J

108

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Q 110

 $R_{eq} = R_1 + R_2 + R_3 + \dots + R_n$ is the combination in

A

Series

B

Parallel

C

Both of them

D

None of them

109

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Q 111

Radiotherapy used in treatment of cancer usually use gamma-rays from

A

copper-60

B

cobalt-60

C

gold

D

silver

110

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Q 112

Breather is provided in a transformer to

A

Absorb moisture of air during breathing

B

provide cold air in the transformer

C

The filter of transformer oil

D

None of above

111

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Q 113

Displacement of object with respect a constant moving(v) frame in same direction is

A

$x-vt$

B

$x+vt$

C

x

D

$x+vt+at^2$

112

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Q 114 The white laser cannot be produced because

A its is not coherent

B it has low energy

C it diffracts easily

D all of these

113

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Q 115

The energy stored in a parallel plate capacitor is 3J. What is the capacitance of the capacitor if the potential difference between the plates is 220V?

A 124 μF B 660 μF C 75 μF

D 124 mF

114

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Q 116

In half wave rectification, the output DC voltage is obtained across the load for

- A the positive half cycle of input AC
- B the negative half cycle of input AC
- C the positive and negative half cycles of input AC
- D Either positive or negative half cycle of input AC

115

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Q 117

As mass number increases, which of the following does not change

A

mass

B

density

C

volume

D

binding energy

116

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Q 118 Internal resistance of a battery is _____ ohm, if, $E=10V$, $V_t=9V$, $I=1A$

A 1

B 0.1

C 0.01

D None of these

117

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Q 119

Molar mass of water is

A

0.018 kg/mol

B

0.108 kg/mol

C

0.027 kg/mol

D

0.0635 kg/mol

118

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Q 120

During an adiabatic process pressure of gas is found to be proportional to the cube of its temperature. The ratio of C_p/C_v is

A

2

B

44319

C

44257

D

44289

119

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Q 121

A pipe is filled with a gas and open at one end. If the length of the pipe is 0.6 m and the speed of sound in the gas is 300 m/s. Then frequencies of the first two harmonics are:

A 125 Hz and 250 Hz

B 250 Hz and 750 Hz

C 250 Hz and 500 Hz

D 125 Hz and 375 Hz

120

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 122

The centripetal force is zero when centrifugal force is

A

equal

B

zero

C

maximum

D

none of these

121

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Q 123

The fast moving photons are called

A

waves

B

particles

C

any of a or b

D

none of these

122

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Q 124

A block of mass 50 kg slide over a horizontal distance of 1 m , if the coefficient between the surfaces is 0.2 then work done against friction is

A 98 J

B 72 J

C 56 J

D 34 J

123

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Q 125

Globulin proteins are found in:

A

Animals

B

Plants

C

Human beings

D

None

124

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Q 126

Melting Point of Non Polar Molecular solids are

A

High

B

Low

C

Sharp

D

None of these

125

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Q 127

Which of the following properties are associated with transition metals ?

A

Color

B

Complex formation

C

Use as catalyst

D

All of these

126

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Q 128

Downs Cell is used for the electrolysis of

A

Aqueous NaCl

B

Aqueous NaNO₃

C

Fused NaCl

D

Fused NaNO₃

127

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Next Question >

Q 129

Change in concentration of reactants and products can only be found by

A

Physical methods

B

Chemical Methods

C

Physical and Chemical methods

D

None of These

128

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Next Question >

Q 130

Ethene is prepared from alcohol by_____?

A

Decomposition

B

Dehydration

C

Dehydroxylation

D

Dehalogenation

129

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Next Question >

Q 131

The value of Van Der Waals constant 'b' for Hydrogen gas is

A

.266

B

.366

C

.318

D

.562

130

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Q 132 SN₂ reactions are _____?

- A 2 step reactions
- B Multistep reactions
- C Single step reactions
- D None of these

131

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Q 133

Joule is the unit of ?

A

Heat

B

Energy

C

Work

D

All of these

132

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Q 134

Alkali metals group lies in ____?

A

d-block

B

s-block

C

f-block

D

P-block

133

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Q 135

The region where probability of finding the electron is maximum is called as

A

Nucleus

B

Atom

C

Orbital

D

Nodal plane

134

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Q 136 Fossil fuels are produced due to_____?

- A Fast decomposition of organic matter
- B Decomposition of plants
- C Decomposition of animals
- D Biochemical decomposition of dead organic matter

135

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Q 137

Liquids have_____?

A

Definite shape

B

Indefinite shape

C

Definite volume

D

None of these

136

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Q 138

Work done on the system is

A

Negative

B

depends upon Boundary Conditions

C

Positive

D

Zero

137

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Q 139

S_N1 reactions are favored by which of the following reactions?

A

Water

B

Benzene

C

Carbon Tetrachloride

D

Carbon disulphide

138

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Q 140

When product formed act as a catalyst phenomena is called:

A

Biocatalyst

B

Autocatalysis

C

Heterocatalysis

D

Homocatalysis

139

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Q 141

Molecular ions are produced by passing high energy electron beam or X-rays beam through_

A

atoms

B

molecules

C

gas

D

solid

140

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Q 142

Potassium has electronic configuration (2,8,8,1) and become ion by attaining configuration

A

2,8,8,2

B

2,8,8,

C

2,8,1

D

2,8,8,8

141

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Q 143

Lower boiling point of ether than water is due to the reason?

A

Ether has strong intermolecular forces

B

Water has weak H-bonding

C

Ether has weak intermolecular forces

D

Water has lower vapour pressure

142

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Q 144

When heat is provided to a liquid it causes it to_____?

A

Contract

B

Decompose

C

Expand

D

Become Non volatile

143

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Q 145

Which product is obtained by Distillation of calcium acetate ?

A

Acetone

B

Acetaldehyde

C

Formaldehyde

D

Carboxylic acid

144

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Q 146

Enthalpy is the sum of internal energy

A

Work done

B

Entropy

C

Potential Energy

D

Kinetic Energy

145

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Q 147

18 g of glucose ($C_6H_{12}O_6$) and 342 g of sucrose ($C_{12}H_{22}O_{11}$) has same number of molecules but _____ number of atoms+896

A different

B same

C greater

D lesser

146

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Q 148

In this compound $[\text{Pt Cl NO}_2 (\text{NH}_3)_4]^{2-}$ the coordination number of transition element is

A

6

B

2

C

8

D

4

147

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Q 149

The partial pressure exerted by the water vapors is called

A

tension

B

aqueous tension

C

aqueous pressure

D

all of these

148

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Q 150

In NaCl crystal, chloride ions present at the face center are distributed in

A

One Unit Cell

B

8 Unit cells

C

4 Unit cells

D

2 Unit cells

149

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Q 151

Legumine & collagen protein are present in which type of body tissues:

A

Cardiac

B

Epithelial

C

Connective

D

Epidermis

150

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Q 152

Hydrolysis of Tertiary Butyl bromide is a

A

First order reaction

B

Zero Order Reaction

C

Pseudo Second Order

D

Pseudo First Order

151

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Q 153

The total of all the possible kind of energies in a system is called

A

Total energy

B

Kinetic Energy

C

Potential Energy

D

Internal Energy

152

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Q 154

Which of the following has lower vapor pressure ?

A

Glycerol

B

Isopentane

C

Ethanol

D

Both a and c

153

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Q 155

Ethanol obtained by the process of fermentation never exceeds to_____?

A

0.12

B

0.14

C

0.2

D

0.32

154

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Q 156 The rate of S_N1 reaction become doubled if _____?

A Concentration of Nucleophile doubled

B Concentration of Substrate doubled

C Concentration of Substrate Tripled

D Concentration of substrate remain same

155

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Q 157

Spectrometry is used when reactants and products absorb

A

Ultraviolet radiations

B

Visible radiation

C

Infrared radiation

D

All of these

156

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Q 158

Binary compounds of halogens with alkali metals are called

A

Oxides

B

Hydrides

C

Halides

D

Nitriles

157

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Q 159

Electrolysis of bauxite is done by

A

Haber's Process

B

Born Haber cycle

C

Ion Exchange Method

D

Hall-Heroult Process

158

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Q 160

The gap in first, second and third ionization energy values helps to guess

A atomic number of an element

B valency of an element

C charge on an atom

D atomic mass of an element

159

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Q 161

On which of the following factors Hydration Energy depend?

A

Charge to size ratio

B

Polarizability of anions

C

Polarization power of Cations

D

All of these

160

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Q 162

On reacting with metals carboxylic acid produces which of the following products ?

A

Salt + water

B

Salt

C

Salt + H₂ gas

D

Salt + Alcohol

161

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Q 163

How many organic compounds are known_____?

A

850000

B

Over 6 million

C

6 million

D

5 million

162

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Q 164

Who proved that no Vital Force theory is involved in synthesis of organic compounds?

A

Lewis

B

Wohler

C

Greek Philosophers

D

Berzilius

163

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Q 165

Who discovered positive rays also called protons and when?

A

Chadwick,1895

B

Goldstein,1886

C

Rutherford,1885

D

J.Perrin,1885

164

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Q 166 40% aqueous solution of formaldehyde is called as _____?

A Pharmalin

B Paraldehyde

C Formamint

D Formalin

165

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Q 167

Which one of the following is used for the artificial ripening of fruits?

A

Ethene

B

Propene

C

Ethane

D

Ethyne

166

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Q 168

In Electrochemical Cell Negative Ions are migrated towards

A

Anode

B

Cathode

C

Toward the bottom of the cell

D

Towards the walls of the cell

167

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Q 169

Who first extracted phenol?

A

Wohler

B

Runge

C

Wittig

D

Wurtz

168

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Q 170

London forces are present in

A

ammonia

B

water

C

kerosene oil

D

HCl

169

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Q 171

Which of the following reaction is used to locate the position of double bond in the compound?

A

Dehydration

B

Ozonolysis

C

Markovnikov's addition

D

Oxidation with KMnO_4

170

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Q 172

Activator of phosphatase enzyme is_____.

A

 Mn^{2+}

B

 Mg^{2+}

C

 Zn^{2+}

D

None of these

171

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Q 173 For aldol condensation, carbonyl system must have_____?

A Beta hydrogen

B Beta carbon

C Alpha carbon

D Alpha hydrogen

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Q 174

Organic compounds are soluble in

A

polar solvents

B

water

C

Ammonium cyanate

D

Non-polar solvents

173

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Q 175

When C -O bond breaks in alcohol, the most reactive is

A

Primary alcohol) secondary alcohol) tertiary alcohol

B

secondary alcohol

C

tertiary alcohol

D

methanol

174

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Q 176

S-S bond is present in which of the ion pairs

A

S₂O₇²⁻, S₂O₃²⁻

B

S₄O₆²⁻, S₂O₇²⁻

C

S₂O₇²⁻, S₂O₈²⁻

D

S₄O₆²⁻, S₂O₃²⁻

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Q 177

Which of the following bond has highest bond energy value ?

A

C-I

B

C-H

C

C-Cl

D

C-F

176

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Q 178

If $n = 4$ then what can be value of 'magnetic quantum number

A

4,3,2,1

B

3,2,1

C

infinity

D

none of these

177

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Q 179

The identical number of layers in cubic and hexagonal closest packing are

A

First three

B

first two

C

only one

D

first four

178

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Q 180

A bonding electron pairs of is attracted by _of atoms

A

one nucleus

B

both nuclei of atoms

C

lone pair

D

shared pair of electron

179

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Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 181

Choose the correct sentence.

A

Dr Hussain works at city hospital in gulberg.

B

Dr Hussain works at City Hospital in Gulberg?

C

Dr Hussain works at City Hospital in Gulberg.

D

Dr Hussain works at city hospital in Gulberg.

180

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Next Question 

Demonstrate correct use of subject-verb agreement

Q 182

Either my mother or my father _____ coming to the meeting.

A

is

B

are

C

are being

D

has

181

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Demonstrate correct use of articles and prepositions

Q 183

Do you wear _____ uniform to school?

A

a

B

an

C

the

D

no article

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Next Question >

Demonstrate control of tenses and sentence structure

Q 184

Who told you this?

A

Declarative

B

Imperative

C

Interrogative

D

Exclamatory

183

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Next Question 

Comprehend key vocabulary

Q 185

queue

A

bench

B

order

C

line

D

accident

184

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Next Question >

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 186

Choose the correct spelling of the word

A

untill

B

until

C

untel

D

antil

185

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Next Question >

Demonstrate control of tenses and sentence structure

Q 187

She _____ for America tomorrow.

A

will leave

B

shall leave

C

left

D

leaving

186

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Demonstrate control of tenses and sentence structure

Q 188

I _____(am) working all afternoon and have just finished the assignment.

A had been

B have been

C am

D shall be

187

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Next Question >

Demonstrate correct use of articles and prepositions

Q 189

We still haven't come ---- with an interesting theme for the advertising campaign.

A on

B in

C up

D down

188

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Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 190

Choose the correct sentence.

A

The air was crisp and clear it was a lovely day.

B

The air was crisp and clear, it was a lovely day.

C

The air was crisp and clear; it was a Lovely Day.

D

The air was crisp and clear; it was a lovely day.

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Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 191

Choose the correct spelling of the word

A

except

B

exept

C

axept

D

exsept

190

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Next Question 

Comprehend key vocabulary

Q 192

All the endangered animals were taken to the _____ to protect them from being hunted.

A

tent

B

house

C

sanctuary

D

accommodation

191

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Next Question >

Demonstrate control of tenses and sentence structure

Q 193 There _____ (be) a lion tamer.

A is

B be

C was

D been

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Next Question >

Demonstrate correct use of articles and prepositions

Q 194

Working at a big company will certainly enable you to have a large circle ---- friends.

A on

B of

C in

D around

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Next Question 

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement
Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 195

Father _____ me not to go out in the cold.

A

advised

B

advice

C

advise

D

advised

194

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Next Question 

Demonstrate correct use of subject-verb agreement

Q 196

Neither the explorer nor his companions _____ ever seen again.

A

is

B

are

C

was

D

were

195

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Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement
Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 197

I had just entered (A) / the station (B)/ than I met (C)/ my friends (D).

A

I had just entered

B

the station

C

than I met

D

my friends.

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Next Question >

Comprehend key vocabulary

Q 198

I noticed that there were two buttons from his coat.

A

falling

B

losing

C

departing

D

missing

197

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Next Question >

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 199

Choose the correct spelling of the word

A

knowledgeable

B

knowledgable

C

knowlegeable

D

knowlegable

198

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Demonstrate control of tenses and sentence structure

Q 200

The art thieves are believed _____ (take) two priceless paintings.

A to take

B take

C took

D to have taken

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Complete the series

Q 201

Complete the series AB, EF, _____, MN

A

IJ

B

RS

C

WX

D

MN

200

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Next Question >

Identify the number that follows the series.

Q 202

Look at this series: 7, 10, 8, 11, 9, 12, ... What number should come next?

A

7

B

10

C

12

D

13

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Statements and Actions

Q 203

Statement The availability of imported fruits has increased in the indigenous market and so the demand for indigenous fruits has been decreased. I. To help the indigenous producers of fruits, the Government should impose high import duty on these fruits, even if these are not of good quality. II. The fruit vendors should stop selling imported fruits. So that the demand for indigenous fruits would be increased.

A

both of them follows

B

None of them follows

C

Only I follows

D

Only II follows

202

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Essential parts

Q 204

What should come next to it infirmary

A

surgery

B

disease

C

patient

D

receptionist

203

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Next Question >

Analogies

Q 205

Measure is to calliper as direction is to

A

Speed

B

Hiking

C

Needle

D

compass

204

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Dependent Causes/ Independent Causes/

Q 206

I. The queen expressed her desire to marry the king again. II. The king would not remarry his ex-wife.

A

Statement I is the cause and statement II is its effect.

B

Statement II is the cause and statement I is its effect.

C

Both statements I and II are independent causes

D

Both statements I and II are the effects of independent cause.

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Statements and Conclusions

Q 207

Statements Pakistan is a multilingual country. Urdu is the national language of Pakistan. Conclusions (I) All Pakistanis should learn many languages. (II) To be an Indian one needs to learn Urdu.

A Only conclusion (I) follows

B Only conclusion (II) follows

C Both conclusions follow

D Both of them do not follow

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Cause and effect

Q 208

Statements (I) Many people prefer to shop at the big retail chains than the local grocery stores. (II) Retail chains offer a discount of more than 25% as compared to local grocery shops.

- A I is cause and II is effect
- B II is cause and I is effect
- C Both are independent causes
- D both are effects of independent causes

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Complete the series

Q 209

Complete the series A3.3, B6.6, C9.9, _____?

A

D13.4

B

D13.2

C

D13.1

D

D13.2

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Answer on Passage

Q 210

The high school math department needs to appoint a new chairperson, which will be based on seniority. Ms. West has less seniority than Mr. Temple, but more than Ms. Brody. Mr. Rhodes has more seniority than Ms. West, but less than Mr. Temple. Mr. Temple doesn't want the job. Who will be the new math department chairperson?

A

Mr. Rhodes

B

Mr. Temple

C

Mr. West

D

Mr. brody

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Q1

All of the following are coelomates except which?

A

Deuterostomes

B

Hemichordates

C

Proterosomes

D

Aschelminthes

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Q2

Which one is not a day neutral plant?

A

cotton

B

maize

C

cucumber

D

tobacco

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Q3

The image represent by compound microscope is

A

real

B

virtual

C

real inverted

D

virtual inverted

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Q4

Quantitative study of energy relationships in biological systems obeys?

A

Bioenergetics

B

Laws of thermodynamics

C

Laws of thermochemistry

D

Laws of chemical energetic

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Q5

Among the followings which is the most longest supportive cell?

A

Trachea

B

Collenchyma cells

C

Sclereids

D

Tracheids

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Q6

The best function of coelom is described as

A

To increase the size of the animals

B

To help in the functioning of reproductive system

C

To provide space for the development of organs and systems

D

all of these

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Q7

A bacterium with tuft of flagella at both poles is called?

A

Lophotrichous

B

Peritrichous

C

Monotrichous

D

Amphitrichous

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Q8

At which times there is no net gaseous exchange between leaves and the atmosphere?

A

Day

B

Night

C

Dawn and Dusk

D

Midnight

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Q9

The genetic change in a population caused by natural selection is called?

A

polymorphism

B

specialization

C

gene linkage

D

adaptation

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Q10

Gametes in animals are produced by which of the following?

A

mitosis

B

meiosis

C

fission

D

all of these

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Q11

Cellular organelles that interact with hydrogen peroxide are called?

A

Glyoxysomes

B

Lysosomes

C

Ribosomes

D

Peroxisomes

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Q12

Two species can avoid competition, and better use the environment's resources by occupying different?

A

adaptations

B

polymorphism

C

niches

D

specialization

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Q13

The main target in the prevention of lung cancer is eliminating the

A

Tobacco smoking

B

chemicals

C

Pollutants

D

Mutagens

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Q14

Which of the following statements are true about the capsomeres?

A

It is an individual unit of the capsid

B

It is a viral protein for replication

C

a. It is a unit of nucleic acid in viruses

D

All of the above

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Q15

Which of the following are important points of Lamarck's theory?

A

Use and disuse of organs

B

Inheritance of acquired characters

C

Natural selection

D

both a and b

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Q16 Which of the following does not show quaternary structure?

A hemoglobin

B Pepsin

C fibrin

D globulin

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Q17

What type of plant cells carry out photosynthesis?

A

Sclerenchymatous cells

B

Parenchymatous cells

C

Chlorenchymatous cells

D

Both B and C

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Q18 The patellar reflex and the Achilles reflex are examples of:

A Monosynaptic reflex

B Polysynaptic reflex

C Hemi Synaptic reflex

D Both A and B

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Q19

Find out the correct sequence for movement of electrons during the light-dependent reaction

A

p68 , p7 , water, NADP

B

water, p7 , NADP, p68

C

p7 , p68 , NADP, water

D

water, p68 , p7 , NADP

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Q20

Which one of these occur in dark reactions of photosynthesis

A

formation of ATP

B

release of oxygen

C

release of hydrogen

D

synthesis of PGAL

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Q21

From beginning of the 3rd month of pregnancy the human embryo is referred to as the?

A

zygote

B

foetus

C

embryo

D

all of these

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Q22

An individual with a heterozygous genotype is a:

A

Heterozygote

B

Both a & b

C

Homozygote

D

None of the above

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Q23

Where is the main blood vessel of arthropods usually found?

A

Lies on ventral side

B

Lies on lateral side

C

Is not present

D

Lies on dorsal side

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Q24

What are the concentrations of the cell bodies of the neurons called?

A

axons

B

introns

C

ganglia

D

dendrites

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Q25 An entire skeletal muscle is surrounded by _____.

A sarcolemma

B epimysium

C Both A and B

D microtubules

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Q26

Microfilaments are composed of a protein called?

A

tubulin

B

actin

C

myosin

D

chitin

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Q27

What is the copper containing protein involved in the ETC in plants?

A

pq

B

pc

C

pt

D

po

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Q28

The controlling function of hypothalamus is:

A

swallowing

B

vision

C

Memory

D

water balance

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Q29

Which of the following is required for learning?

A

Medulla

B

Thalamus

C

hypothalamus

D

Hippocampus

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Q30

The Herpes virus is responsible for which of the following types of Herpes?

A

simplex

B

duplex

C

triplex

D

quadruplex

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Q31

Inbreeding reduces the fitness of a population. This is the result of which increased genetic affect of inbreeding?

A

Rate of spontaneous mutation

B

Levels of aggression

C

Genetic diversity

D

Expression of deleterious recessive traits

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Q32

If we consider Hardy-Weinberg law, then following is incorrect in its sense?

A

Mutations cause changes in genetic frequency

B

Migration changes allele frequency

C

There should not be selection

D

Non-random mating will reduce chances of evolution

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Q33

Which system is present in nematodes?

A

Sac - like digestive system

B

Circulatory system

C

Respiratory system

D

Tube - like digestive system

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Q34

Which of the following are modern-day descends of theropod dinosaurs?

A

birds

B

lions

C

panther

D

bears

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Q35 The cementing material between adjacent plant cells.

A Cellulose

B Hemicellulose

C Middle lamella

D All of the above

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Q36

The actual remains or traces of organisms that lived in ancient geological times are known as?

A

Vestigial organs

B

fuel

C

fossils

D

all of these

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Q37

The most abundant intracellular free nucleotide is

A

UTP

B

FAD

C

NAD

D

ATP

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Q38

Chemical substances used on living tissues that inhibit the growth of micro organism are called?

A

disinfectant

B

sanitizer

C

antibiotic

D

antiseptics

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Q39

In fruit flies, white eyes are produced by a dominant X-linked mutation, with the wild-type being red-eyed. If a white-eyed male is mated with a red-eyed female, what will be the phenotype of the resulting offspring?

A

Half the females will have white eyes

B

All the males will have white eyes

C

Half the males will have white eyes

D

All the females will have white eyes

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Q40

A much smaller and ancient bacteria are present in group

A

Archaeo bacteria

B

Lactobacteria

C

Eubacteria

D

Anaerobic bacteria

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Q41

The joint that allows the movements in two directions is called:

A

Fibrous joints

B

Cartilaginous Joints

C

Hinge joint

D

Ball and socket joint

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Q42

The gene which controls ABO group has how many alleles in an individual?

A

1

B

2

C

3

D

4

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Q43

Glottis is lined with:

A

plasma membrane

B

Mucous membrane

C

meninges

D

epithelial membrane

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Q44

If the non-protein part is loosely attached to the protein part in the enzyme, it is known as?

A

coenzyme

B

prosthetic group

C

cofactor

D

apoenzyme

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Q45 Which of the statement is not true for compounds like glycoprotein and glycolipids?

- A They are conjugated molecules of carbohydrates
- B Both have role in the extracellular matrix of animals and bacterial cell wall
- C They are components of biological membranes.
- D Both are produced and secreted by endoplasmic reticulum

Q46 Which of the following animals is NOT a protostome?

A Earthworm

B Cockroach

C Butterfly

D Sting ray

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Q47

Net yield of H_2O in Photosynthesis is?

A

1

B

6

C

3

D

0

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Q48 The soluble sap of the nucleus in a plant cell is called?

A cytoplasm

B nucleoplasm

C protoplasm

D protoplast

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Q49 An example of convergent evolution is best represented by which of the following?

- A Teeth of domestic dog, teeth of a wolf
- B Wings of *Geospiza magnirostris*, wings of *Geospiza fortis*
- C Wing of Hawkmoths, the wing of hawks
- D all of these

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Q50

Which of these functions will be affected if the medulla oblongata is damaged?

A

Thermoregulation

B

Vision

C

Memory

D

Tactile sensation-response when pricked with a needle

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Q51

Which hormone is involved in opening and closing of stomata?

A

citric acid

B

Oxaloacetic acid

C

abscisic acid

D

None of these

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Q52

Which of the following statements about the systemic affect of bacterial cells are true?

A

Gram-negative bacteria are more likely to cause systemic effects because their lack of an outer membrane means they can more quickly infect host cells.

B

Gram-negative bacteria are more likely to cause systemic effects because their outer membrane protects them from antibiotics

C

both a and b

D

none of these

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Q53

What's the difference between homologous and analogous structures?

A

Homologous structures result from a common ancestor; analogous structures result from repetitive usage by the individual

B

Homologous structures result from convergent evolution; analogous structures result from a common ancestor

C

There is no difference between homologous and analogous structures

D

Homologous structures result from a common ancestor; analogous structures result from convergent evolution

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Q54

How do competitive inhibitors affect enzyme efficiency?

A

Raise the maximum rate of the enzymatic reaction

B

Lower the maximum rate of the enzymatic reaction

C

Lower the Michaelis constant

D

Raise the Michaelis constant

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Q55

Lymph vessels transfer the lymph into blood through:

A

subclavian artery

B

subclavian vein

C

iliac artery

D

iliac vein

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Q56

The end product of an enzymatic reaction inhibits formation of product in an earlier step. This type of enzymatic regulation is known as ?

A

allosteric regulation

B

negative regulation

C

metabolic pathway loop

D

feedback inhibition

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Q57

Breathing and heart rate is controlled by which of these?

A

Corpus callosum

B

Hippocampus

C

Medulla

D

Thalamus

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Q58

Phosphofructokinases enzyme converts fructose-6-phosphate into__

A

fructose-1,4-phosphate

B

fructose-1,6-bisphosphate

C

bisphosphate

D

fructose

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Q59

Viruses can bud from

A

Rough endoplasmic reticulum

B

golgi complex

C

nuclear envelop

D

all of these

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Q60

Identify the de Broglie expression from the following.

A

$$\lambda = h \times p$$

B

$$\lambda = h/p$$

C

$$\lambda = h + p$$

D

$$\lambda = h - p$$

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Q61

Object A has a charge of 15 mC, and object B has a charge of 10 mC. Which statement is true about the electric forces on the objects?

A

$$F_{AB} = -3 F_{BA}$$

B

$$F_{AB} = - F_{BA}$$

C

$$3 F_{AB} = - F_{BA}$$

D

$$-3 F_{AB} = 2 F_{BA}$$

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Q62

The distance between two consecutive crests of a travelling wave is 10 cm. If the speed of the wave 50 cm/s, then its frequency would be:....

A

40 Hz

B

 $1/5$ Hz

C

5 Hz

D

500 Hz

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Q63

Acceleration of object which starts rest to reach 20 m/s in 10 sec is

A

 2m/s^2

B

 10m/s^2

C

 1 m/s^2

D

 2m.s^2

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Q65

SI unit of inductance is

A

Henry

B

Farad

C

Maxwell

D

Weber

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Q66

Work done can be calculated by taking

A

dot product of force and displacement

B

cross product of force and displacement

C

both cross and dot product

D

none of these

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Q67

A steady current passing through a conductor produces

A

electric field

B

magnetic field

C

both of these

D

none of these

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Q68

Which of the following is not a type of rectifier?

A

Phase wave rectifier

B

Full wave

C

half wave

D

none of them

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Q69

Two objects, with different sizes, masses, and temperatures, are placed in thermal contact. In which direction does the energy travel?

A

energy travels from the larger object to the smaller object

B

energy travels from the object with more mass to the one with less mass

C

energy travels from the object at higher temperature to the object at lower temperature

D

energy does not travel

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Q70

A body performing circular motion with a constant speed has a constant :

A

momentum

B

angular velocity

C

acceleration

D

radius vector

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Q71

If the nuclear radius of Al-27 is 3.6 fm, the approximate nuclear radius of Cu-64 in fermi is

A

1.2 gm

B

2.4 fm

C

3.6 fm

D

4.8 fm

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Q72

Harmonics in transformer result in

A

increases core loss

B

Increases I^2R loss

C

Interference with communication circuits

D

All of the above

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Q73

A sinusoidal current has rms value of 10A. What is the peak value of current?

A

144.4A

B

1.4A

C

0.1414A

D

14.4A

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Q74

Excited atoms returns to ground state in ____ time

A

1 ns

B

2ns

C

3ns

D

all of these

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Q75

x-rays were discovered in

A

nuclear bomb experiment

B

chemical reaction experiment

C

scattering experiment

D

none of these

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Q76

Ohm's law is not applicable to

A

Semiconductors

B

D.C. circuits

C

Small resistors

D

High currents

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Q77

A projectile is launched with vertical Kinetic energy K at angle θ then its variation with kinetic energy K_0 is

A

Parabolic

B

periodic

C

hyperbolic trajectory

D

linear

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Q78

Strength of magnetic field is called

A

strength

B

flux

C

magnetic flux density

D

density

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Q79

The angular speed of the wheels of a bicycle is 8π radian/sec there period of rotation is :

A

.25 sec

B

.4 sec

C

$\pi/4$ sec

D

4 sec

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Q80

Centre tape rectifier circuit consists of _____ diode

A

1

B

200%

C

300%

D

400%

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Q81

Two tuning forks produces 6 beats per second. Which of the following are possible frequencies of these tuning forks.

A

12 Hz and 24 Hz

B

8 Hz and 14 Hz

C

10 Hz and 20 Hz

D

66 Hz and 11 Hz

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Q82

Find the probability that the nucleus of $^{87}\text{Ra}^{221}$ undergoes decay after three half-lives, if its a radioactive substance which has a half-life of 6 days.

A

 $1/6$

B

 $3/2$

C

 $5/6$

D

 $1/2$

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Q83

Beta rays cannot be stopped by

A

paper

B

water

C

air

D

all of these

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Q84

If one body is at motion then if we try to stop it then it will resist by

A

inertia of motion

B

inertia of rest

C

inertia of turning

D

inertia of acceleration

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Q85

Which one of them is a type of emission

A

spontaneous

B

stimulated

C

both a) and b)

D

None of these

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Q86

LED TV produce ____ radiation

A

alpha

B

beta

C

gamma

D

none of these

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Q87

The frequency of a string on a musical instrument can be changed either by:

A

varying the diameter or by changing the length

B

varying the tension or by changing the thickness

C

varying the tension or by changing the length

D

varying the thickness or by changing the length

Q88

The basic purpose of filter is to

A

minimize variation in ac signal

B

suppress harmonics in rectified output

C

remove ripples from the rectified output

D

stabilize dc output voltage

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Q89

The Boltzmann's constant, k_B , is defined as:....

A

 $NA + R$

B

 $R \div NA$

C

 $NA \div R$

D

 $NA \times R$

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Q90

What is 30 degrees in radians?

A

 $\pi/3$

B

 $\pi/6$

C

 $\pi/2$

D

 $\pi/4$

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Q91

Two forces of $F_1 = 5 \text{ N}$ and $F_2 = 15 \text{ N}$ are working on a body in opposite direction. If body displaced by 5 m in direction of net force, what will be the work done by F_2

A

25 J

B

-75 J

C

75 J

D

50 J

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Q92

A square coil of side length 2 mm is placed in the x-y plane and in uniform magnetic field 0.1 T. Find total flux through the coil

A

1.6 Wb

B

0.16 Wb

C

16 Wb

D

0 Wb

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Q93

When work done by force of gravity is negative (only gravity is acting)

A

KE decreases

B

PE increases

C

both (A) and (B)

D

none of these

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Q94

If a current wire of 2 A and length 5m enters perpendicular to magnetic field of 10T. calculate the force experienced by it

A

50N

B

100N

C

200N

D

25N

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Q95

One kcal =

A

4.18 J

B

4180 J

C

2.09 J

D

2090 J

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Q96

$R_{eq} = R_1 + R_2 + R_3 + \dots + R_n$ is the combination in

A

Series

B

Parallel

C

Both of them

D

None of them

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Q97

Radiotherapy used in treatment of cancer usually use gamma-rays from

A

copper-60

B

cobalt-60

C

gold

D

silver

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Q98

Breather is provided in a transformer to

A

Absorb moisture of air during breathing

B

provide cold air in the transformer

C

The filter of transformer oil

D

None of above

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Q99

Displacement of object with respect a constant moving(v) frame in same direction is

A

$x-vt$

B

$x+vt$

C

x

D

$x+vt+at^2$

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Q100

The white laser cannot be produced because

A

its is not coherent

B

it has low energy

C

it diffracts easily

D

all of these

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Q101

The energy stored in a parallel plate capacitor is 3J. What is the capacitance of the capacitor if the potential difference between the plates is 220V?

A

124 μF

B

660 μF

C

75 μF

D

124 mF

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Q102

In half wave rectification, the output DC voltage is obtained across the load for

A

the positive half cycle of input AC

B

the negative half cycle of input AC

C

the positive and negative half cycles of input AC

D

Either positive or negative half cycle of input AC

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Q103

Internal resistance of a battery is _____ ohm, if, $E=10V$, $V_t=9V$, $I=1A$

A

1

B

0.1

C

0.01

D

None of these

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Q104

Molar mass of water is

A

0.018 kg/mol

B

0.108 kg/mol

C

0.027 kg/mol

D

0.0635 kg/mol

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Q105

During an adiabatic process pressure of gas is found to be proportional to the cube of its temperature. The ratio of C_p/C_v is

A

2

B

44319

C

44257

D

44289

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Q106

A pipe is filled with a gas and open at one end. If the length of the pipe is 0.6 m and the speed of sound in the gas is 300 m/s. Then frequencies of the first two harmonics are:

A 125 Hz and 250 Hz

B 250 Hz and 750 Hz

C 250 Hz and 500 Hz

D 125 Hz and 375 Hz

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Q107

The centripetal force is zero when centrifugal force is

A

equal

B

zero

C

maximum

D

none of these

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Q108

The fast moving photons are called

A

waves

B

particles

C

any of a or b

D

none of these

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Q109

A block of mass 50 kg slide over a horizontal distance of 1 m , if the coefficient between the surfaces is 0.2 then work done against friction is

A

98 J

B

72 J

C

56 J

D

34 J

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Q110

Melting Point of Non Polar Molecular solids are

A

High

B

Low

C

Sharp

D

None of these

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Q111

Which of the following properties are associated with transition metals ?

A

Color

B

Complex formation

C

Use as catalyst

D

All of these

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Q112 Downs Cell is used for the electrolysis of

A Aqueous NaCl

B Aqueous NaNO₃

C Fused NaCl

D Fused NaNO₃

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Q113

Change in concentration of reactants and products can only be found by

A

Physical methods

B

Chemical Methods

C

Physical and Chemical methods

D

None of These

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Q114 Ethene is prepared from alcohol by_____?

A Decomposition

B Dehydration

C Dehydroxylation

D Dehalogenation

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Q115

The value of Van Der Waals constant 'b' for Hydrogen gas is

A

.266

B

.366

C

.318

D

.562

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Q116 SN2 reactions are _____?

A 2 step reactions

B Multistep reactions

C Single step reactions

D None of these

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Q117 Alkali metals group lies in ____?

A d-block

B s-block

C f-block

D P-block

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Q118

The region where probability of finding the electron is maximum is called as

A

Nucleus

B

Atom

C

Orbital

D

Nodal plane

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Q119

Fossil fuels are produced due to_____?

A

Fast decomposition of organic matter

B

Decomposition of plants

C

Decomposition of animals

D

Biochemical decomposition of dead organic matter

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Q120

Liquids have_____?

A

Definite shape

B

Indefinite shape

C

Definite volume

D

None of these

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Q121

Work done on the system is

A

Negative

B

depends upon Boundary Conditions

C

Positive

D

Zero

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Q122

SN1 reactions are favored by which of the following reactions?

A

Water

B

Benzene

C

Carbon Tetrachloride

D

Carbon disulphide

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Q123

When product formed act as a catalyst phenomena is called:

A

Biocatalyst

B

Autocatalysis

C

Heterocatalysis

D

Homocatalysis

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Q124

Molecular ions are produced by passing high energy electron beam or X-rays beam through_

A

atoms

B

molecules

C

gas

D

solid

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Q125

Lower boiling point of ether than water is due to the reason?

A

Ether has strong intermolecular forces

B

Water has weak H-bonding

C

Ether has weak intermolecular forces

D

Water has lower vapour pressure

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Q126

When heat is provided to a liquid it causes it to_____?

A

Contract

B

Decompose

C

Expand

D

Become Non volatile

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Q127

Which product is obtained by Distillation of calcium acetate ?

A

Acetone

B

Acetaldehyde

C

Formaldehyde

D

Carboxylic acid

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Q128

Enthalpy is the sum of internal energy

A

Work done

B

Entropy

C

Potential Energy

D

Kinetic Energy

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Q129

18 g of glucose ($\text{C}_6\text{H}_{12}\text{O}_6$) and 342 g of sucrose ($\text{C}_{12}\text{H}_{22}\text{O}_{11}$) has same number of molecules but _____ number of atoms+B96

A

different

B

same

C

greater

D

lesser

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Q130

In this compound $[\text{Pt Cl NO}_2 (\text{NH}_3)_4]^{2-}$ the coordination number of transition element is

A

6

B

2

C

8

D

4

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Q131

The partial pressure exerted by the water vapors is called

A

tension

B

aqueous tension

C

aqueous pressure

D

all of these

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Q132

Legumine & collagen protein are present in which type of body tissues:

A

Cardiac

B

Epithelial

C

Connective

D

Epidermis

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Q133

Hydrolysis of Tertiary Butyl bromide is a

A

First order reaction

B

Zero Order Reaction

C

Pseudo Second Order

D

Pseudo First Order

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Q134

The total of all the possible kind of energies in a system is called

A

Total energy

B

Kinetic Energy

C

Potential Energy

D

Internal Energy

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Q135

Which of the following has lower vapor pressure ?

A

Glycerol

B

Isopentane

C

Ethanol

D

Booth a and c

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Q136

Ethanol obtained by the process of fermentation never exceeds to _____?

A

0.12

B

0.14

C

0.2

D

0.32

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Q137

The rate of S_N1 reaction become doubled if _____?

A

Concentration of Nucleophile doubled

B

Concentration of Substrate doubled

C

Concentration of Substrate Tripled

D

Concentration of substrate remain same

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Q138

Spectrometry is used when reactants and products absorb

A

Ultraviolet radiations

B

Visible radiation

C

Infrared radiation

D

All of these

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Q139

Binary compounds of halogens with alkali metals are called

A

Oxides

B

Hydrides

C

Halides

D

Nitriles

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Q140

The gap in first, second and third ionization energy values helps to guess

A

atomic number of an element

B

valency of an element

C

charge on an atom

D

atomic mass of an element

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Q141

On which of the following factors Hydration Energy depend?

A

Charge to size ratio

B

Polarizability of anions

C

Polarization power of Cations

D

All of these

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Q142

On reacting with metals carboxylic acid produces which of the following products ?

A

Salt + water

B

Salt

C

Salt + H_2 gas

D

Salt + Alcohol

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Q143

How many organic compounds are known_____?

A

850000

B

Over 6 million

C

6 million

D

5 million

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Q144

Who proved that no Vital Force theory is involved in synthesis of organic compounds?

A

Lewis

B

Wohler

C

Greek Philosophers

D

Berzilius

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Q145

Who discovered positive rays also called protons and when?

A

Chadwick,1895

B

Goldstein,1886

C

Rutherford,1885

D

J.Perrin,1885

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Q146 40% aqueous solution of formaldehyde is called as_____?

A Pharmalin

B Paraldehyde

C Formamint

D Formalin

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Q147

In Electrochemical Cell Negative Ions are migrated towards

A

Anode

B

Cathode

C

Toward the bottom of the cell

D

Towards the walls of the cell

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Q148

Who first extracted phenol?

A

Wohler

B

Runge

C

Wittig

D

Wurtz

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Q149

London forces are present in

A

ammonia

B

water

C

kerosene oil

D

HCl

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Q150

Which of the following reaction is used to locate the position of double bond in the compound?

A

Dehydration

B

Ozonolysis

C

Markovnikov's addition

D

Oxidation with KMnO_4

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Q151

Activator of phosphatase enzyme is_____.

A

 Mn^{2+}

B

 Mg^{2+}

C

 Zn^{2+}

D

None of these

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Q152

For aldol condensation, carbonyl system must have_____?

A

Beta hydrogen

B

Beta carbon

C

Alpha carbon

D

Alpha hydrogen

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Q153

Organic compounds are soluble in

A

polar solvents

B

water

C

Ammonium cyanate

D

Non-polar solvents

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Q154

S-S bond is present in which of the ion pairs

A

S₂O₇²⁻, S₂O₃²⁻

B

S₄O₆²⁻, S₂O₇²⁻

C

S₂O₇²⁻, S₂O₈²⁻

D

S₄O₆²⁻, S₂O₃²⁻

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Q155

Which of the following bond has highest bond energy value ?

A

C-I

B

C-H

C

C-Cl

D

C-F

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Q156

If $n = 4$ then what can be value of 'magnetic quantum number

A

4,3,2,1

B

3,2,1

C

infinity

D

none of these

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Q157

The identical number of layers in cubic and hexagonal closest packing are

A

First three

B

first two

C

only one

D

first four

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Q158

A bonding electron pairs of is attracted by _of atoms

A

one nucleus

B

both nuclei of atoms

C

lone pair

D

shared pair of electron

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Q159

Choose the correct sentence.

A

Dr Hussain works at city hospital in gulberg.

B

Dr Hussain works at City Hospital in Gulberg?

C

Dr Hussain works at City Hospital in Gulberg.

D

Dr Hussain works at city hospital in Gulberg.

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Q160

Either my mother or my father _____ coming to the meeting.

A

is

B

are

C

are being

D

has

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Q161

Do you wear _____ uniform to school?

A

a

B

an

C

the

D

no article

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Q162

queue

A

bench

B

order

C

line

D

accident

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Q163

Choose the correct spelling of the word

A

untill

B

until

C

untel

D

antil

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Q164

She _____ for America tomorrow.

A

will leave

B

shall leave

C

left

D

leaving

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Q165

I _____(am) working all afternoon and have just finished the assignment.

A

had been

B

have been

C

am

D

shall be

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Q166

We still haven't come ---- with an interesting theme for the advertising campaign.

A

on

B

in

C

up

D

down

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Q167

Choose the correct sentence.

A

The air was crisp and clear it was a lovely day.

B

The air was crisp and clear, it was a lovely day.

C

The air was crisp and clear; it was a Lovely Day.

D

The air was crisp and clear; it was a lovely day.

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Q168

Choose the correct spelling of the word

A

except

B

exept

C

axept

D

exsept

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Q169

There _____ (be) a lion tamer.

A

is

B

be

C

was

D

been

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Q170

Working at a big company will certainly enable you to have a large circle ---- friends.

A

on

B

of

C

in

D

around

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Q171

Father _____ me not to go out in the cold.

A

advised

B

advice

C

advise

D

advised

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Q172

Neither the explorer nor his companions _____ ever seen again.

A

is

B

are

C

was

D

were

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Q173

I had just entered (A) / the station (B)/ than I met (C)/ my friends (D).

A

I had just entered

B

the station

C

than I met

D

my friends.

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Q174

I noticed that there were two buttons from his coat.

A

falling

B

losing

C

departing

D

missing

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Q175

Choose the correct spelling of the word

A

knowledgeable

B

knowledgable

C

knowlegeable

D

knowlegable

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Q176

Complete the series AB, EF, _____, MN

A

IJ

B

RS

C

WX

D

MN

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Q177

Look at this series: 7, 10, 8, 11, 9, 12, ... What number should come next?

A

7

B

10

C

12

D

13

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Q178

Statement The availability of imported fruits has increased in the indigenous market and so the demand for indigenous fruits has been decreased. I. To help the indigenous producers of fruits, the Government should impose high import duty on these fruits, even if these are not of good quality. II. The fruit vendors should stop selling imported fruits. So that the demand for indigenous fruits would be increased.

A

both of them follows

B

None of them follows

C

Only I follows

D

Only II follows

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Q179

What should come next to it infirmary

A

surgery

B

disease

C

patient

D

receptionist

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Q180

Measure is to calliper as direction is to

A

Speed

B

Hiking

C

Needle

D

compass

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Q181

I. The queen expressed her desire to marry the king again. II. The king would not remarry his ex-wife.

A

Statement I is the cause and statement II is its effect.

B

Statement II is the cause and statement I is its effect.

C

Both statements I and II are independent causes

D

Both statements I and II are the effects of independent cause.

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Q182

Statements Pakistan is a multilingual country. Urdu is the national language of Pakistan. Conclusions (I) All Pakistanis should learn many languages. (II) To be an Indian one needs to learn Urdu.

A Only conclusion (I) follows

B Only conclusion (II) follows

C Both conclusions follow

D Both of them do not follow

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Q183

Statements (I) Many people prefer to shop at the big retail chains than the local grocery stores. (II) Retail chains offer a discount of more than 25% as compared to local grocery shops.

A

I is cause and II is effect

B

II is cause and I is effect

C

Both are independent causes

D

both are effects of independent causes

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Q184

The high school math department needs to appoint a new chairperson, which will be based on seniority. Ms. West has less seniority than Mr. Temple, but more than Ms. Brody. Mr. Rhodes has more seniority than Ms. West, but less than Mr. Temple. Mr. Temple doesn't want the job. Who will be the new math department chairperson?

A

Mr. Rhodes

B

Mr. Temple

C

Mr. West

D

Mr. brody

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Q185

sperms are nourished and activated through?

A

vas deferens

B

prostate gland

C

semen

D

all of these

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Q186

For respiratory metabolism, bacterial cell membrane contains

A

proteins

B

lipids

C

enzymes

D

chemicals

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Q187

Humans estimated haploid protein coding genes are in range?

A

30,000-40,000

B

40,000-50,000

C

10,000-15,000

D

20,000-25,000

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Q188

The catalytic activity of an enzyme is restricted to its small protein called?

A

intermediate site

B

active site

C

passive site

D

both a and b

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Q189

Competitive inhibition can be overcome by using

A

low concentration of substrate

B

high concentration of inhibitor

C

moderate concentration of inhibitor

D

high concentration of substrate

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Q190

AIDs was firstly reported in which types of individuals?

A

heterosexuals

B

homosexuals

C

both

D

none

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Q191

Resistivity of a substance is defined as the resistance of a _____ of that substance.

A

meter

B

meter square

C

meter cube

D

centimeter

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Q192

Characteristics feature of male drosophila is:

A

Sex combs on back legs

B

Sex combs on front legs

C

Sex combs on middle legs

D

None of them

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Q193

Which joints are held together by short collagen fibers embedded in connective tissue?

A

Fibrous joints

B

Cartilaginous Joints

C

Synovial Joints

D

None of these

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Q194

Secondary oocyte is ovulated from:

A

corpus luteum

B

Graafian follicle

C

primary follicle

D

germinal epithelium

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Q195

A 4kg eagle picks up a 75g snake and raises it 2.5 m from the ground to a branch. What is the work done to raise the bird's own centre of mass to the branch? (Assume $g = 10 \text{ m/s}^2$)

A

100 J

B

1.875 J

C

18.75 J

D

187.5 J

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Q196

A motion with uniform negative acceleration can be represented on displacement-time graph by:...

A

a horizontal line

B

a curve line with decreasing gradient

C

a straight line with constant gradient

D

a curve line with increasing gradient

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Q197

Einstein was awarded Nobel Prize for his work on

A

photoelectric effect

B

nuclear fission

C

theory of relativity

D

all are correct

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Q198

When we heat a substance, energy associated with its atoms or molecules is increased. It means...

A

heat is converted to internal energy

B

heat is converted to only potential energy of the particles

C

heat is converted to only kinetic energy of the particles

D

heat is converted to temperature of gas

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Q199

As mass number increases, which of the following does not change

A

mass

B

density

C

volume

D

binding energy

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Q200

Globulin proteins are found in:

A

Animals

B

Plants

C

Human beings

D

None

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Q201

Joule is the unit of ?

A

Heat

B

Energy

C

Work

D

All of these

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Q202

Potassium has electronic configuration (2,8,8,1) and become ion by attaining configuration

A

2,8,8,2

B

2,8,8,

C

2,8,1

D

2,8,8,8

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Q203

In NaCl crystal, chloride ions present at the face center are distributed in

A

One Unit Cell

B

8 Unit cells

C

4 Unit cells

D

2 Unit cells

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Q204

Electrolysis of bauxite is done by

A

Haber's Process

B

Born Haber cycle

C

Ion Exchange Method

D

Hall-Heroult Process

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Q205

Which one of the following is used for the artificial ripening of fruits?

A

Ethene

B

Propene

C

Ethane

D

Ethyne

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Q206

When C -O bond breaks in alcohol, the most reactive is

A

Primary alcohol) secondary alcohol) tertiary alcohol

B

secondary alcohol

C

tertiary alcohol

D

methanol

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Q207

Who told you this?

A

Declarative

B

Imperative

C

Interrogative

D

Exclamatory

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Q208

All the endangered animals were taken to the _____ to protect them from being hunted.

A

tent

B

house

C

sanctuary

D

accomodation

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Q209

The art thieves are believed _____ (take) two priceless paintings.

A

to take

B

take

C

took

D

to have taken

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Q210 Complete the series A3.3, B6.6, C9.9, _____?

A D13.4

B D13.2

C D13.1

D D13.2

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Q210 Complete the series A3.3, B6.6, C9.9, ____?

A D13.4

B D13.2

C D13.1

D D13.2

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